SEQUENCE LISTING

<110> Williams, Kevin J.

<120> Thrombospondin Fragments and Uses Thereof In Clinical Assays for Cancer and Generation of Antibodies and Other Binding Agents

<130> W1107-20005

<140> 10/419,462
<141> 2003-04-21

<160> 53

<170> PatentIn version 3.2

<210> 1
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<220>
<223> Thrombospondin Region

<400> 1

Thr Glu Glu Asn Lys Glu
1 5

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<220>
<223> Thrombospondin Region which includes an N-terminal Cys added to aid conjugation

<400> 2

Cys Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu Asn Lys Glu
1 5 10 15

<210> 3
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<400> 3

Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu Asn Lys Glu
1 5 10

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<400> 4

Glu Gly Glu Ala Arg Glu
1 5

<210> 5
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<400> 5

Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu
1 5 10

<210> 6
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<400> 6

Glu Asp Thr Asp Leu Asp
1 5

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<400> 7

Tyr Ala Gly Asn Gly Ile Ile Cys Gly Glu Asp Thr Asp Leu Asp
1 5 10 15

<210> 8
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<220>
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<400> 8

Cys Asn Ser Pro Ser Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu

1 5 10 15

Ala Arg

<210> 9
<211> 17
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<220>
<223> Thrombospondin Region

<400> 9

Arg Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu Arg Arg
1 5 10 15

Pro

<210> 10
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<220>
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<400> 10

Cys Arg Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu Arg
1 5 10 15

Arg Pro

<210> 11
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<400> 11

Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg
1 5 10

<210> 12
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<400> 12

Cys Glu Gly Glu Ala Arg
1 5

<210> 13
<211> 9
<212> PRT
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<220>
<223> Thrombospondin Region

<400> 13

Arg Lys Val Thr Glu Glu Asn Lys Glu
1 5

<210> 14
<211> 15
<212> PRT
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<400> 14

Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp Asn Cys
1 5 10 15

<210> 15
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<212> PRT
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<220>
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<220>
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<222> (15)..(15)
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<400> 15

Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp Asn Cys
1 5 10 15

<210> 16
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<220>

<223> Thrombospondin Region

<400> 16

Asp Asp Asp Asp Asn Asp Lys
1 5

<210> 17
<211> 14
<212> PRT
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<220>
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<400> 17

Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly
1 5 10

<210> 18
<211> 15
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<220>
<223> Thrombospondin Region plus N-terminal Cys to aid

<400> 18

Cys Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly
1 5 10 15

<210> 19
<211> 6
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<220>
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<400> 19

Glu Asp Tyr Asp Lys Asp
1 5

<210> 20
<211> 19
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<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 20

Cys Pro Tyr Asn His Asn Pro Asp Gln Ala Asp Thr Asp Asn Asn Gly
1 5 10 15

Glu Gly Asp

<210> 21
<211> 15
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<220>
<223> Thrombospondin Region

<400> 21

Cys Arg Leu Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly Asp
1 5 10 15

<210> 22
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<212> PRT
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<220>
<223> Thrombospondin Region

<400> 22

Asp Gln Lys Asp Ser Asp Gly Asp
1 5

<210> 23
<211> 20
<212> PRT
<213> Artificial Region

<220>
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<400> 23

Cys Pro Tyr Val Pro Asn Ala Asn Gln Ala Asp His Asp Lys Asp Gly
1 5 10 15

Lys Gly Asp Ala
20

<210> 24
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<220>
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<400> 24

Thr Glu Arg Asp Asp Asp
1 5

<210> 25
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 25

Asp Phe Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp
1 5 10 15

<210> 26
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 26

Glu Arg Lys Asp His Ser
1 5

<210> 27
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 27

Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His Ser
1 5 10

<210> 28
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus N-terminal Cys

<400> 28

Cys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His Ser
1 5 10 15

<210> 29
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 29

Asp Asp Lys Phe Gln Asp
1 5

<210> 30
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 30

Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp
1 5 10

<210> 31
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus N-terminal Cys

<400> 31

Cys Ala Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp
1 5 10 15

<210> 32
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 32

Asp Cys Glu Lys Met Glu
1 5

<210> 33
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 33

Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn
1 5 10 15

<210> 34
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 34

Cys Gly Thr Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe
1 5 10 15

Asp

<210> 35
<211> 14
<212> PRT
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<220>
<223> Thrombospondin Region

<400> 35

Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp
1 5 10

<210> 36
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 36

Gly Trp Lys Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg Pro
1 5 10 15

Lys Thr Gly

<210> 37
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus N-terminal Cys

<400> 37

Cys Gly Trp Lys Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg

1 5 10 15

Pro Lys Thr Gly
20

<210> 38
<211> 1170
<212> PRT
<213> Human

<400> 38

Met Gly Leu Ala Trp Gly Leu Gly Val Leu Phe Leu Met His Val Cys
1 5 10 15

Gly Thr Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp
20 25 30

Ile Phe Glu Leu Thr Gly Ala Ala Arg Lys Gly Ser Gly Arg Arg Leu
35 40 45

Val Lys Gly Pro Asp Pro Ser Ser Pro Ala Phe Arg Ile Glu Asp Ala
50 55 60

Asn Leu Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp Leu Val Asp
65 70 75 80

Ala Val Arg Ala Glu Lys Gly Phe Leu Leu Leu Ala Ser Leu Arg Gln
85 90 95

Met Lys Lys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His
100 105 110

Ser Gly Gln Val Phe Ser Val Val Ser Asn Gly Lys Ala Gly Thr Leu
115 120 125

Asp Leu Ser Leu Thr Val Gln Gly Lys Gln His Val Val Ser Val Glu
130 135 140

Glu Ala Leu Leu Ala Thr Gly Gln Trp Lys Ser Ile Thr Leu Phe Val
145 150 155 160

Gln Glu Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn
165 170 175

Ala Glu Leu Asp Val Pro Ile Gln Ser Val Phe Thr Arg Asp Leu Ala
180 185 190

Ser Ile Ala Arg Leu Arg Ile Ala Lys Gly Gly Val Asn Asp Asn Phe

195 200 205

Gln Gly Val Leu Gln Asn Val Arg Phe Val Phe Gly Thr Thr Pro Glu
210 215 220

Asp Ile Leu Arg Asn Lys Gly Cys Ser Ser Ser Thr Ser Val Leu Leu
225 230 235 240

Thr Leu Asp Asn Asn Val Val Asn Gly Ser Ser Pro Ala Ile Arg Thr
245 250 255

Asn Tyr Ile Gly His Lys Thr Lys Asp Leu Gln Ala Ile Cys Gly Ile
260 265 270

Ser Cys Asp Glu Leu Ser Ser Met Val Leu Glu Leu Arg Gly Leu Arg
275 280 285

Thr Ile Val Thr Thr Leu Gln Asp Ser Ile Arg Lys Val Thr Glu Glu
290 295 300

Asn Lys Glu Leu Ala Asn Glu Leu Arg Arg Pro Pro Leu Cys Tyr His
305 310 315 320

Asn Gly Val Gln Tyr Arg Asn Asn Glu Glu Trp Thr Val Asp Ser Cys
325 330 335

Thr Glu Cys His Cys Gln Asn Ser Val Thr Ile Cys Lys Lys Val Ser
340 345 350

Cys Pro Ile Met Pro Cys Ser Asn Ala Thr Val Pro Asp Gly Glu Cys
355 360 365

Cys Pro Arg Cys Trp Pro Ser Asp Ser Ala Asp Asp Gly Trp Ser Pro
370 375 380

Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser Cys Gly Asn Gly Ile Gln
385 390 395 400

Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn Asn Arg Cys Glu Gly Ser
405 410 415

Ser Val Gln Thr Arg Thr Cys His Ile Gln Glu Cys Asp Lys Arg Phe
420 425 430

Lys Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser
435 440 445

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Val Thr Cys Gly Asp Gly Val Ile Thr Arg Ile Arg Leu Cys Asn Ser
    450                 455                 460

Pro Ser Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu
465                 470                 475                 480

Thr Lys Ala Cys Lys Lys Asp Ala Cys Pro Ile Asn Gly Gly Trp Gly
                485                 490                 495

Pro Trp Ser Pro Trp Asp Ile Cys Ser Val Thr Cys Gly Gly Gly Val
            500                 505                 510

Gln Lys Arg Ser Arg Leu Cys Asn Asn Pro Ala Pro Gln Phe Gly Gly
        515                 520                 525

Lys Asp Cys Val Gly Asp Val Thr Glu Asn Gln Ile Cys Asn Lys Gln
    530                 535                 540

Asp Cys Pro Ile Asp Gly Cys Leu Ser Asn Pro Cys Phe Ala Gly Val
545                 550                 555                 560

Lys Cys Thr Ser Tyr Pro Asp Gly Ser Trp Lys Cys Gly Ala Cys Pro
                565                 570                 575

Pro Gly Tyr Ser Gly Asn Gly Ile Gln Cys Thr Asp Val Asp Glu Cys
            580                 585                 590

Lys Glu Val Pro Asp Ala Cys Phe Asn His Asn Gly Glu His Arg Cys
        595                 600                 605

Glu Asn Thr Asp Pro Gly Tyr Asn Cys Leu Pro Cys Pro Pro Arg Phe
    610                 615                 620

Thr Gly Ser Gln Pro Phe Gly Gln Gly Val Glu His Ala Thr Ala Asn
625                 630                 635                 640

Lys Gln Val Cys Lys Pro Arg Asn Pro Cys Thr Asp Gly Thr His Asp
                645                 650                 655

Cys Asn Lys Asn Ala Lys Cys Asn Tyr Leu Gly His Tyr Ser Asp Pro
            660                 665                 670

Met Tyr Arg Cys Glu Cys Lys Pro Gly Tyr Ala Gly Asn Gly Ile Ile
        675                 680                 685

Cys Gly Glu Asp Thr Asp Leu Asp Gly Trp Pro Asn Glu Asn Leu Val
    690                 695                 700
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Cys Val Ala Asn Ala Thr Tyr His Cys Lys Lys Asp Asn Cys Pro Asn
705                 710                 715                 720

Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys Asp Gly Ile Gly Asp
                725                 730                 735

Ala Cys Asp Asp Asp Asp Asp Asn Asp Lys Ile Pro Asp Asp Arg Asp
            740                 745                 750

Asn Cys Pro Phe His Tyr Asn Pro Ala Gln Tyr Asp Tyr Asp Arg Asp
        755                 760                 765

Asp Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Asn His Asn Pro Asp
    770                 775                 780

Gln Ala Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ala Ala Asp
785                 790                 795                 800

Ile Asp Gly Asp Gly Ile Leu Asn Glu Arg Asp Asn Cys Gln Tyr Val
                805                 810                 815

Tyr Asn Val Asp Gln Arg Asp Thr Asp Met Asp Gly Val Gly Asp Gln
            820                 825                 830

Cys Asp Asn Cys Pro Leu Glu His Asn Pro Asp Gln Leu Asp Ser Asp
        835                 840                 845

Ser Asp Arg Ile Gly Asp Thr Cys Asp Asn Asn Gln Asp Ile Asp Glu
    850                 855                 860

Asp Gly His Gln Asn Asn Leu Asp Asn Cys Pro Tyr Val Pro Asn Ala
865                 870                 875                 880

Asn Gln Ala Asp His Asp Lys Asp Gly Lys Gly Asp Ala Cys Asp His
                885                 890                 895

Asp Asp Asp Asn Asp Gly Ile Pro Asp Asp Lys Asp Asn Cys Arg Leu
            900                 905                 910

Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly Asp Gly Arg Gly Asp
        915                 920                 925

Ala Cys Lys Asp Asp Phe Asp His Asp Ser Val Pro Asp Ile Asp Asp
    930                 935                 940

Ile Cys Pro Glu Asn Val Asp Ile Ser Glu Thr Asp Phe Arg Arg Phe
945                 950                 955                 960
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Gln Met Ile Pro Leu Asp Pro Lys Gly Thr Ser Gln Asn Asp Pro Asn
965 970 975

Trp Val Val Arg His Gln Gly Lys Glu Leu Val Gln Thr Val Asn Cys
980 985 990

Asp Pro Gly Leu Ala Val Gly Tyr Asp Glu Phe Asn Ala Val Asp Phe
995 1000 1005

Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp Tyr Ala
1010 1015 1020

Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val
1025 1030 1035

Met Trp Lys Gln Val Thr Gln Ser Tyr Trp Asp Thr Asn Pro Thr
1040 1045 1050

Arg Ala Gln Gly Tyr Ser Gly Leu Ser Val Lys Val Val Asn Ser
1055 1060 1065

Thr Thr Gly Pro Gly Glu His Leu Arg Asn Ala Leu Trp His Thr
1070 1075 1080

Gly Asn Thr Pro Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg
1085 1090 1095

His Ile Gly Trp Lys Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser
1100 1105 1110

His Arg Pro Lys Thr Gly Phe Ile Arg Val Val Met Tyr Glu Gly
1115 1120 1125

Lys Lys Ile Met Ala Asp Ser Gly Pro Ile Tyr Asp Lys Thr Tyr
1130 1135 1140

Ala Gly Gly Arg Leu Gly Leu Phe Val Phe Ser Gln Glu Met Val
1145 1150 1155

Phe Phe Ser Asp Leu Lys Tyr Glu Cys Arg Asp Pro
1160 1165 1170

<210> 39
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 39

Met Gly Leu Ala Trp Gly Leu Gly Val Leu Phe Leu Met His Val Cys
1 5 10 15

Gly Thr

<210> 40
<211> 240
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<220>
<223> Thrombospondin Region plus N-terminal domain

<400> 40

Asn Arg Ile Pro Glu Ser Gly Gly Asp Asn Ser Val Phe Asp Ile Phe
1 5 10 15

Glu Leu Thr Gly Ala Ala Arg Lys Gly Ser Gly Arg Arg Leu Val Lys
20 25 30

Gly Pro Asp Pro Ser Ser Pro Ala Phe Arg Ile Glu Asp Ala Asn Leu
35 40 45

Ile Pro Pro Val Pro Asp Asp Lys Phe Gln Asp Leu Val Asp Ala Val
50 55 60

Arg Ala Glu Lys Gly Phe Leu Leu Leu Ala Ser Leu Arg Gln Met Lys
65 70 75 80

Lys Thr Arg Gly Thr Leu Leu Ala Leu Glu Arg Lys Asp His Ser Gly
85 90 95

Gln Val Phe Ser Val Val Ser Asn Gly Lys Ala Gly Thr Leu Asp Leu
100 105 110

Ser Leu Thr Val Gln Gly Lys Gln His Val Val Ser Val Glu Glu Ala
115 120 125

Leu Leu Ala Thr Gly Gln Trp Lys Ser Ile Thr Leu Phe Val Gln Glu
130 135 140

Asp Arg Ala Gln Leu Tyr Ile Asp Cys Glu Lys Met Glu Asn Ala Glu
145 150 155 160

Leu Asp Val Pro Ile Gln Ser Val Phe Thr Arg Asp Leu Ala Ser Ile
165 170 175

Ala Arg Leu Arg Ile Ala Lys Gly Gly Val Asn Asp Asn Phe Gln Gly
180 185 190

Val Leu Gln Asn Val Arg Phe Val Phe Gly Thr Thr Pro Glu Asp Ile
195 200 205

Leu Arg Asn Lys Gly Cys Ser Ser Ser Thr Ser Val Leu Leu Thr Leu
210 215 220

Asp Asn Asn Val Val Asn Gly Ser Ser Pro Ala Ile Arg Thr Asn Tyr
225 230 235 240

<210> 41
<211> 22
<212> PRT
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<220>
<223> Thrombospondin Region plus Domain of inter-chain disulfide bonds

<400> 41

Ile Gly His Lys Thr Lys Asp Leu Gln Ala Ile Cys Gly Ile Ser Cys
1 5 10 15

Asp Glu Leu Ser Ser Met
20

<210> 42
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus Procollagen homology domain

<400> 42

Val Leu Glu Leu Arg Gly Leu Arg Thr Ile Val Thr Thr Leu Gln Asp
1 5 10 15

Ser Ile Arg Lys Val Thr Glu Glu Asn Lys Glu Leu Ala Asn Glu Leu
20 25 30

Arg Arg Pro Pro Leu Cys Tyr His Asn Gly Val Gln Tyr Arg Asn Asn
35 40 45

Glu Glu Trp Thr Val Asp Ser Cys Thr Glu Cys His Cys Gln Asn Ser
50 55 60

Val Thr Ile Cys Lys Lys Val Ser Cys Pro Ile Met Pro Cys Ser Asn
65 70 75 80

Ala Thr Val Pro Asp Gly Glu Cys Cys Pro Arg Cys Trp Pro Ser Asp
85 90 95

Ser Ala

<210> 43
<211> 170
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus Domain of type 1 repeats

<400> 43

Asp Asp Gly Trp Ser Pro Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser
1 5 10 15

Cys Gly Asn Gly Ile Gln Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn
20 25 30

Asn Arg Cys Glu Gly Ser Ser Val Gln Thr Arg Thr Cys His Ile Gln
35 40 45

Glu Cys Asp Lys Arg Phe Lys Gln Asp Gly Gly Trp Ser His Trp Ser
50 55 60

Pro Trp Ser Ser Cys Ser Val Thr Cys Gly Asp Gly Val Ile Thr Arg
65 70 75 80

Ile Arg Leu Cys Asn Ser Pro Ser Pro Gln Met Asn Gly Lys Pro Cys
85 90 95

Glu Gly Glu Ala Arg Glu Thr Lys Ala Cys Lys Lys Asp Ala Cys Pro
100 105 110

Ile Asn Gly Gly Trp Gly Pro Trp Ser Pro Trp Asp Ile Cys Ser Val
115 120 125

Thr Cys Gly Gly Gly Val Gln Lys Arg Ser Arg Leu Cys Asn Asn Pro
130 135 140

Ala Pro Gln Phe Gly Gly Lys Asp Cys Val Gly Asp Val Thr Glu Asn
145 150 155 160

Gln Ile Cys Asn Lys Gln Asp Cys Pro Ile
165 170

<210> 44
<211> 143
<212> PRT
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<220>
<223> Thrombospondin Region plus Domain of type 2 repeats

<400> 44

Asp Gly Cys Leu Ser Asn Pro Cys Phe Ala Gly Val Lys Cys Thr Ser
1 5 10 15

Tyr Pro Asp Gly Ser Trp Lys Cys Gly Ala Cys Pro Pro Gly Tyr Ser
20 25 30

Gly Asn Gly Ile Gln Cys Thr Asp Val Asp Glu Cys Lys Glu Val Pro
35 40 45

Asp Ala Cys Phe Asn His Asn Gly Glu His Arg Cys Glu Asn Thr Asp
50 55 60

Pro Gly Tyr Asn Cys Leu Pro Cys Pro Pro Arg Phe Thr Gly Ser Gln
65 70 75 80

Pro Phe Gly Gln Gly Val Glu His Ala Thr Ala Asn Lys Gln Val Cys
85 90 95

Lys Pro Arg Asn Pro Cys Thr Asp Gly Thr His Asp Cys Asn Lys Asn
100 105 110

Ala Lys Cys Asn Tyr Leu Gly His Tyr Ser Asp Pro Met Tyr Arg Cys
115 120 125

Glu Cys Lys Pro Gly Tyr Ala Gly Asn Gly Ile Ile Cys Gly Glu
130 135 140

<210> 45
<211> 24
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<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus Region between the type 2 and the type 3 repeat

<400> 45

Asp Thr Asp Leu Asp Gly Trp Pro Asn Glu Asn Leu Val Cys Val Ala
1 5 10 15

Asn Ala Thr Tyr His Cys Lys Lys
20

<210> 46
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 46

Asp Asn Cys Pro Asn Leu Pro Asn Ser Gly Gln Glu Asp Tyr Asp Lys
1 5 10 15

Asp Gly Ile Gly Asp Ala Cys Asp Asp Asp Asp Asp Asn Asp Lys Ile
20 25 30

Pro Asp Asp Arg
35

<210> 47
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 47

Asp Asn Cys Pro Phe His Tyr Asn Pro Ala Gln Tyr Asp Tyr Asp Arg
1 5 10 15

Asp Asp Val Gly Asp Arg Cys
20

<210> 48
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 48

Asp Asn Cys Pro Tyr Asn His Asn Pro Asp Gln Ala Asp Thr Asp Asn
1 5 10 15

Asn Gly Glu Gly Asp Ala Cys Ala Ala Asp Ile Asp Gly Asp Gly Ile
20 25 30

Leu Asn Glu Arg
35

<210> 49
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 49

Asp Asn Cys Gln Tyr Val Tyr Asn Val Asp Gln Arg Asp Thr Asp Met
1 5 10 15

Asp Gly Val Gly Asp Gln Cys
20

<210> 50
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 50

Asp Asn Cys Pro Leu Glu His Asn Pro Asp Gln Leu Asp Ser Asp Ser
1 5 10 15

Asp Arg Ile Gly Asp Thr Cys Asp Asn Asn Gln Asp Ile Asp Glu Asp
20 25 30

Gly His Gln Asn Asn Leu
35

<210> 51
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region

<400> 51

Asp Asn Cys Pro Tyr Val Pro Asn Ala Asn Gln Ala Asp His Asp Lys
1 5 10 15

Asp Gly Lys Gly Asp Ala Cys Asp His Asp Asp Asp Asn Asp Gly Ile
20 25 30

Pro Asp Asp Lys
35

<210> 52
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Thrombospondin Region plus Domain of type 3 repeats

<400> 52

Asp Asn Cys Arg Leu Val Pro Asn Pro Asp Gln Lys Asp Ser Asp Gly
1 5 10 15

Asp Gly Arg Gly Asp Ala Cys Lys Asp Asp Phe Asp His Asp Ser Val
20 25 30

Pro Asp Ile Asp
35

<210> 53
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<220>
<223> Thrombospondin Region plus C-terminal domain

<400> 53

Asp Ile Cys Pro Glu Asn Val Asp Ile Ser Glu Thr Asp Phe Arg Arg
1 5 10 15

Phe Gln Met Ile Pro Leu Asp Pro Lys Gly Thr Ser Gln Asn Asp Pro
20 25 30

Asn Trp Val Val Arg His Gln Gly Lys Glu Leu Val Gln Thr Val Asn
35 40 45

Cys Asp Pro Gly Leu Ala Val Gly Tyr Asp Glu Phe Asn Ala Val Asp
50 55 60

Phe Ser Gly Thr Phe Phe Ile Asn Thr Glu Arg Asp Asp Asp Tyr Ala
65 70 75 80

Gly Phe Val Phe Gly Tyr Gln Ser Ser Ser Arg Phe Tyr Val Val Met
85 90 95

Trp Lys Gln Val Thr Gln Ser Tyr Trp Asp Thr Asn Pro Thr Arg Ala
100 105 110

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Gln Gly Tyr Ser Gly Leu Ser Val Lys Val Val Asn Ser Thr Thr Gly
        115                 120                 125

Pro Gly Glu His Leu Arg Asn Ala Leu Trp His Thr Gly Asn Thr Pro
    130                 135                 140

Gly Gln Val Arg Thr Leu Trp His Asp Pro Arg His Ile Gly Trp Lys
145                 150                 155                 160

Asp Phe Thr Ala Tyr Arg Trp Arg Leu Ser His Arg Pro Lys Thr Gly
                165                 170                 175

Phe Ile Arg Val Val Met Tyr Glu Gly Lys Lys Ile Met Ala Asp Ser
            180                 185                 190

Gly Pro Ile Tyr Asp Lys Thr Tyr Ala Gly Gly Arg Leu Gly Leu Phe
        195                 200                 205

Val Phe Ser Gln Glu Met Val Phe Phe Ser Asp Leu Lys Tyr Glu Cys
    210                 215                 220

Arg Asp Pro
225
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